

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P155574

Luminaire Tested: **TLM-F01-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F01-LED-E1-T3-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

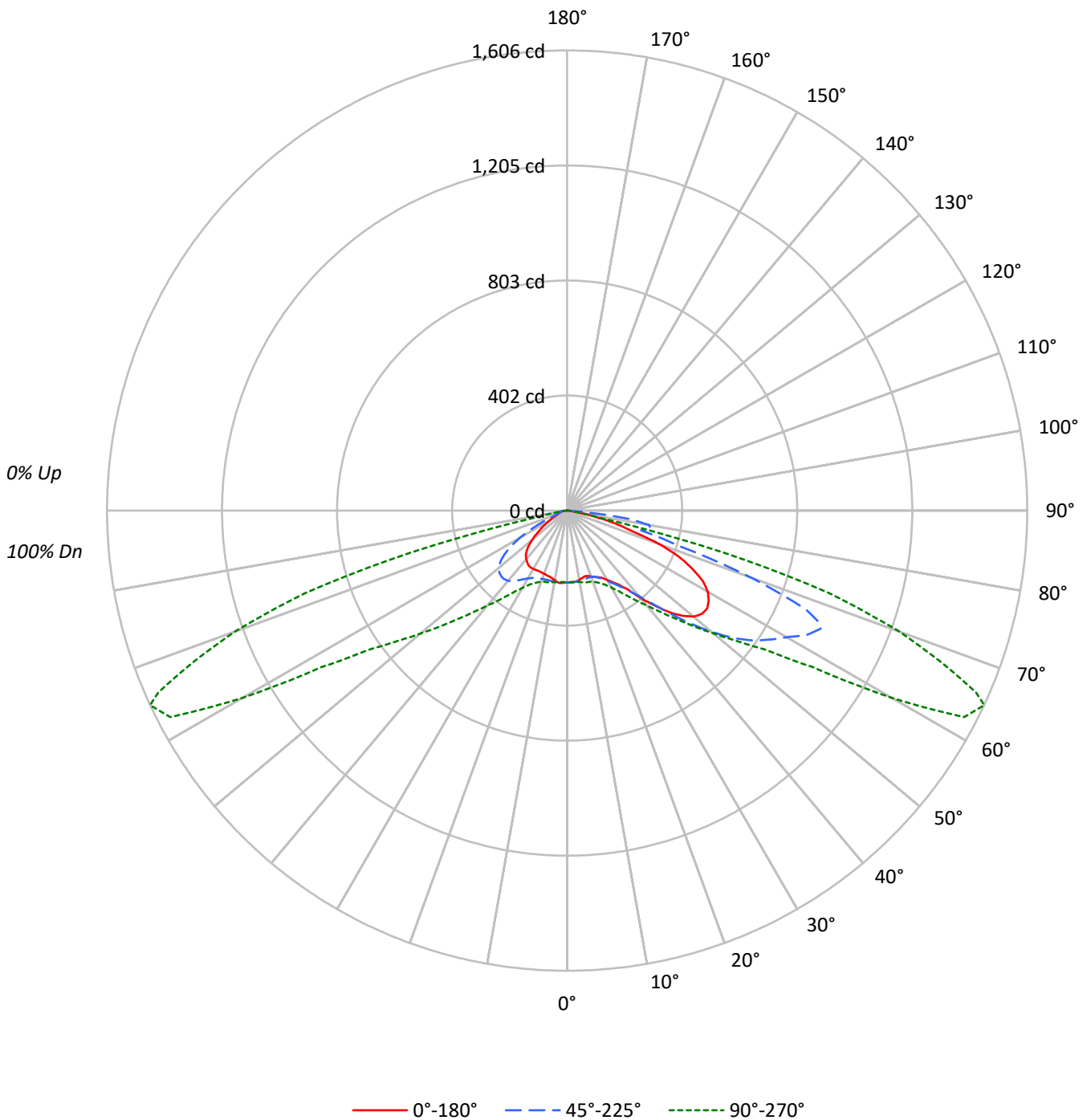
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F01-LED-E1-T3-7030

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60	57
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46	43
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29	26
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23	21
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20	17
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15867	15867	15867
5°	15928	15909	16163
10°	15791	16273	15887
15°	15555	16984	15654
20°	16508	17836	15801
25°	17913	19562	16292
30°	20413	22745	17218
35°	24480	27896	18103
40°	32781	35707	18325
45°	44781	47557	17936
50°	56669	65653	15770
55°	65837	93467	12540
60°	71738	165308	9510
65°	72409	240613	7191
70°	63462	227891	5998
75°	41931	137903	6140
80°	15314	14038	7256
85°	2543	9299	8064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	1.0
10°-20°	70.8	3.0
20°-30°	121.7	5.2
30°-40°	197.7	8.5
40°-50°	330.0	14.2
50°-60°	519.6	22.3
60°-70°	708.6	30.5
70°-80°	306.7	13.2
80°-90°	46.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	216.6	9.3
0°-40°	414.2	17.8
0°-60°	1263.8	54.4
0°-90°	2325.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	251	251	251	251	251	
5°	251	251	250	253	254	24
15°	237	247	259	252	239	68
25°	256	258	280	260	233	120
35°	317	324	361	297	234	205
45°	500	507	531	325	200	384
55°	596	790	847	268	114	526
65°	483	976	1606	94	48	469
75°	171	267	564	25	25	183
85°	4	59	13	18	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6
2.5°	251.6	252.6	251.6	251.8	252.1	251.8	251.6	251.6	250.8	251.3	251.8
5°	250.6	251.3	251.1	251.3	251.6	251.3	251.1	251.3	250.8	251.1	251.8
7.5°	249.3	249.1	249.3	249.8	250.3	250.3	250.3	250.6	250.3	250.3	251.1
10°	245.6	245.8	246.3	247.1	247.3	248.1	248.1	248.8	249.1	249.6	250.6
12.5°	240.8	241.0	241.5	242.0	243.3	244.5	244.5	246.3	247.1	248.3	250.1
15°	237.3	237.5	238.0	238.5	239.5	240.8	241.5	243.5	244.8	247.1	249.6
17.5°	239.3	239.0	239.5	239.8	239.8	240.8	240.8	242.3	243.8	245.8	249.1
20°	245.0	245.0	245.6	245.6	245.3	245.8	244.8	244.8	245.0	246.1	248.3
22.5°	250.8	250.6	251.6	252.1	252.3	253.1	252.1	251.8	250.6	249.8	250.6
25°	256.4	256.1	257.4	258.1	259.4	260.1	260.1	260.1	259.1	257.9	257.1
27.5°	264.9	264.9	266.2	266.9	267.9	269.4	270.2	270.2	270.4	268.7	267.4
30°	279.2	279.5	279.7	280.7	281.7	282.2	283.3	284.0	284.8	283.8	281.7
32.5°	296.3	294.8	294.8	296.3	297.6	299.1	299.6	300.6	302.1	301.3	301.1
35°	316.7	316.2	315.7	316.2	317.7	319.4	321.5	323.2	322.2	323.7	323.0
37.5°	346.8	347.3	347.6	347.6	347.3	347.8	348.8	350.6	350.1	350.6	351.6
40°	396.6	394.8	393.1	393.3	390.8	391.3	387.3	389.1	389.3	387.6	388.3
42.5°	446.4	447.4	448.1	450.1	448.4	447.4	443.6	443.6	441.6	439.8	439.3
45°	500.1	502.2	502.4	506.4	504.9	508.2	511.0	510.2	506.9	506.7	503.2
47.5°	543.1	546.4	549.9	554.7	558.5	565.7	574.3	578.6	581.1	583.1	579.1
50°	575.3	576.8	585.9	593.4	601.7	613.8	625.6	640.9	653.2	659.0	664.5
52.5°	592.6	596.4	606.2	618.0	632.6	650.7	669.8	694.2	715.3	729.4	741.9
55°	596.4	600.2	611.2	626.3	646.2	670.6	697.9	731.1	762.8	789.9	816.3
57.5°	585.9	590.1	601.9	619.3	642.7	672.3	706.7	750.2	794.0	837.9	876.9
60°	566.5	571.8	582.6	599.7	625.6	659.0	700.2	754.7	816.1	883.4	958.1
62.5°	534.6	540.1	550.2	569.0	595.7	632.6	680.4	748.2	834.9	941.0	1073.4
65°	483.3	485.8	498.1	517.2	540.9	581.6	634.1	716.0	828.9	976.4	1158.9
66°	460.2	464.5	472.0	487.3	510.0	548.2	600.9	684.1	806.0	964.1	1156.6
67.5°	424.0	427.3	432.3	442.6	456.4	484.6	534.6	613.2	736.1	901.8	1108.6
70°	342.8	344.3	351.1	354.6	359.4	368.7	386.8	432.0	527.8	683.4	894.7
72.5°	233.7	238.0	245.3	255.4	268.4	281.0	289.5	295.3	315.9	407.7	596.2
75°	171.4	175.9	185.2	198.6	221.4	247.6	274.7	287.3	278.7	266.9	332.0
77.5°	99.5	105.6	113.4	126.2	147.3	182.0	228.5	269.7	297.6	299.3	284.3
80°	42.0	42.7	47.5	54.0	67.1	91.5	127.7	187.0	248.8	290.5	300.3
82.5°	9.6	11.8	15.1	17.8	21.9	30.2	44.7	74.4	134.5	210.9	275.0
85°	3.5	3.5	4.8	7.0	8.0	9.0	11.8	18.8	32.2	59.3	123.7
87.5°	0.0	0.3	0.5	0.5	1.0	1.3	2.0	2.8	2.5	2.3	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6
2.5°	251.3	251.1	250.6	250.6	250.6	250.6	250.1	250.3	249.8	250.1	250.1
5°	251.1	251.1	250.8	250.3	250.6	250.6	250.8	250.3	250.3	250.6	250.3
7.5°	251.1	250.8	250.8	250.8	251.1	250.8	251.1	251.1	251.1	251.3	251.3
10°	251.1	251.1	251.6	251.8	251.8	252.1	252.8	252.8	253.1	253.3	253.8
12.5°	251.3	252.3	253.1	253.8	254.1	254.6	255.9	255.9	256.4	257.1	257.4
15°	251.6	253.1	254.6	255.1	255.6	256.6	257.9	258.4	259.1	259.9	260.4
17.5°	251.3	253.3	255.1	255.9	256.6	257.9	259.4	259.9	260.9	261.9	262.9
20°	251.1	253.8	256.6	257.6	258.6	260.4	262.4	263.6	264.7	266.2	267.2
22.5°	252.6	255.9	259.6	261.1	262.9	265.2	267.9	269.4	270.7	272.2	272.9
25°	257.4	259.9	264.4	266.9	269.2	272.9	276.7	278.5	280.0	281.2	281.5
27.5°	265.4	266.2	271.7	275.0	278.2	284.3	288.8	290.0	292.8	293.8	293.6
30°	278.5	277.2	281.7	286.8	291.5	299.8	305.4	308.6	311.1	311.1	309.1
32.5°	297.3	295.3	296.6	302.4	307.9	319.9	326.5	330.8	332.5	332.0	327.7
35°	322.0	320.7	319.9	324.5	333.3	347.3	355.9	358.1	360.9	360.4	354.9
37.5°	351.1	350.1	350.1	355.4	363.9	384.8	394.1	395.6	395.3	391.3	381.0
40°	385.5	385.0	382.8	385.8	393.1	420.2	432.8	434.8	432.0	425.5	413.4
42.5°	435.1	432.0	425.0	426.8	432.3	458.7	475.0	480.5	477.8	471.2	451.6
45°	499.6	496.4	484.6	483.1	486.1	509.2	530.3	531.6	531.1	522.8	499.6
47.5°	575.5	570.5	558.0	553.9	552.9	574.3	594.6	596.7	595.4	583.1	552.2
50°	657.7	650.4	642.2	639.4	635.4	650.7	671.3	671.6	666.5	649.4	620.5
52.5°	745.4	742.9	741.4	738.7	736.9	750.2	762.8	755.3	747.7	729.9	704.7
55°	833.9	844.2	854.8	855.8	858.8	873.1	872.9	852.3	846.7	836.9	812.1
57.5°	927.9	966.1	999.3	1009.6	1019.7	1046.3	1043.8	1023.4	1016.4	1004.3	983.7
60°	1055.8	1158.9	1254.6	1277.5	1293.4	1325.3	1322.3	1290.8	1305.4	1304.4	1277.8
62.5°	1235.0	1406.4	1550.0	1585.1	1596.2	1599.7	1580.6	1546.7	1561.0	1577.1	1495.2
65°	1356.4	1558.0	1705.3	1732.4	1733.9	1692.0	1649.5	1609.5	1606.0	1592.2	1475.1
66°	1359.2	1565.5	1713.3	1739.7	1730.4	1673.1	1619.3	1579.1	1561.8	1531.4	1410.0
67.5°	1310.4	1518.5	1677.6	1705.5	1685.2	1604.0	1529.9	1478.1	1444.1	1394.9	1287.8
70°	1100.6	1306.9	1503.0	1555.0	1561.5	1440.4	1337.6	1276.8	1231.0	1163.4	1071.2
72.5°	818.3	1004.8	1177.7	1227.5	1252.9	1156.1	1069.4	1023.2	960.6	889.5	823.9
75°	513.0	644.7	760.5	795.5	771.6	696.7	644.7	625.3	563.7	521.3	491.4
77.5°	293.3	334.5	343.8	330.5	302.4	231.5	164.6	121.9	105.8	117.1	129.2
80°	286.3	262.4	209.1	184.0	166.6	114.6	67.4	46.2	38.5	39.5	42.7
82.5°	310.1	332.8	274.0	223.4	187.5	126.7	69.9	37.2	25.1	29.7	33.4
85°	201.6	280.5	252.6	212.9	172.4	108.3	57.6	19.4	12.8	16.8	23.1
87.5°	20.4	22.4	19.1	25.9	19.4	9.0	4.5	2.8	2.5	3.0	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6	250.6
2.5°	250.3	250.3	250.6	250.8	251.1	251.3	251.3	251.3	251.3	251.8	251.6
5°	250.8	251.3	251.8	252.1	252.6	252.6	253.3	253.1	253.1	253.8	254.1
7.5°	251.8	252.6	253.6	253.3	254.3	254.1	254.6	254.6	253.8	254.1	253.6
10°	254.1	255.1	255.6	254.8	255.1	254.1	253.8	252.6	251.1	250.3	249.3
12.5°	257.9	258.9	258.9	257.6	256.1	253.8	252.1	249.3	247.1	245.8	244.5
15°	261.1	262.1	261.9	259.9	257.6	254.1	251.6	248.3	245.0	243.0	241.8
17.5°	263.6	264.1	263.4	260.6	258.1	254.8	252.3	248.8	245.0	242.5	240.3
20°	267.4	266.9	265.2	261.6	258.9	255.9	253.8	250.8	246.6	243.3	240.0
22.5°	272.9	270.9	267.7	263.9	261.1	258.4	256.4	253.1	248.8	244.8	241.0
25°	280.2	276.2	271.7	267.7	265.2	262.1	259.9	256.4	251.8	247.3	242.8
27.5°	290.8	283.8	278.0	274.5	271.7	267.9	265.2	260.6	255.9	250.6	245.6
30°	302.6	293.1	287.5	284.8	281.7	277.7	273.4	267.7	262.1	256.4	250.3
32.5°	317.9	306.4	301.1	298.3	294.3	289.3	284.3	277.7	269.9	262.4	255.1
35°	338.0	326.2	320.7	316.4	310.9	304.4	297.1	288.3	277.7	267.7	258.4
37.5°	359.7	346.8	341.6	337.0	328.7	320.2	309.9	297.1	282.7	269.4	257.9
40°	387.0	375.2	368.5	360.7	350.9	336.0	319.9	301.3	283.0	266.7	253.1
42.5°	421.7	409.9	399.9	387.6	370.5	347.6	324.7	300.6	278.5	259.9	245.3
45°	467.7	453.4	436.1	414.4	386.8	354.9	325.0	295.8	269.9	249.3	233.7
47.5°	524.0	502.2	473.8	437.3	397.6	356.9	320.9	286.3	256.6	234.2	216.9
50°	590.9	556.4	509.7	456.2	403.1	353.9	310.9	271.9	237.8	213.9	193.3
52.5°	667.3	611.0	542.1	469.7	402.9	343.8	293.8	250.3	213.1	186.5	166.9
55°	757.0	673.3	575.5	479.8	395.8	325.2	267.7	219.9	182.7	158.1	140.0
57.5°	888.5	774.4	633.9	495.4	381.8	296.6	232.2	183.5	150.8	127.4	112.1
60°	1128.7	943.0	738.9	526.8	360.2	254.6	190.8	144.5	117.1	98.3	88.0
62.5°	1309.7	1073.4	795.7	519.8	316.7	202.8	141.5	105.3	86.2	73.4	66.9
65°	1283.8	1033.0	735.1	447.6	248.3	143.0	94.0	71.6	59.3	53.3	49.5
66°	1225.2	980.2	682.6	402.9	214.6	118.9	77.4	60.1	51.0	46.7	44.2
67.5°	1114.2	882.2	588.6	330.2	164.9	86.2	58.3	47.5	41.5	39.7	38.0
70°	926.2	703.5	413.2	192.3	84.2	48.0	36.9	33.2	31.7	31.4	30.9
72.5°	709.8	497.9	243.3	91.0	43.7	31.9	28.7	27.4	26.9	26.9	27.1
75°	435.1	279.7	107.6	44.5	30.7	26.9	25.4	24.9	24.6	24.9	24.6
77.5°	145.3	89.0	46.0	33.7	27.9	24.9	23.9	23.4	23.4	23.4	23.4
80°	44.5	38.7	35.2	31.2	26.4	23.6	22.1	21.9	22.1	22.4	21.6
82.5°	33.4	31.7	29.7	27.6	23.9	21.1	20.6	20.6	20.6	19.9	18.8
85°	24.6	24.4	20.1	18.8	17.6	17.6	17.6	17.6	16.8	15.6	14.6
87.5°	4.5	4.3	4.5	4.8	7.0	7.5	7.5	8.0	8.8	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P155574

CATALOG NUMBER: TLM-F01-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	250.6	250.6	250.6	250.6	250.6
2.5°	251.6	251.3	252.1	251.6	251.8
5°	253.8	253.6	254.1	253.6	254.3
7.5°	253.1	252.6	252.3	252.6	252.8
10°	247.8	247.3	247.1	246.8	247.1
12.5°	243.3	242.3	242.3	241.8	242.0
15°	240.0	239.3	239.0	238.5	238.8
17.5°	238.5	237.3	236.8	236.3	236.3
20°	237.5	236.0	235.2	234.7	234.5
22.5°	237.5	235.2	234.2	233.7	233.5
25°	238.5	235.7	234.2	233.5	233.2
27.5°	240.5	237.0	235.2	234.2	234.2
30°	244.0	239.5	237.0	235.7	235.5
32.5°	247.6	241.5	238.0	236.5	236.0
35°	249.3	241.5	237.3	234.7	234.2
37.5°	247.3	238.3	233.0	229.2	228.5
40°	241.0	231.5	225.7	222.2	221.7
42.5°	232.7	223.4	216.6	214.1	213.4
45°	221.4	210.4	203.6	200.1	200.3
47.5°	202.1	190.8	184.7	181.5	182.0
50°	179.2	168.1	162.9	159.3	160.1
52.5°	154.1	144.0	139.0	137.2	136.7
55°	127.7	119.9	116.4	114.4	113.6
57.5°	103.5	98.0	95.5	93.0	93.2
60°	81.7	78.9	78.2	75.4	75.1
62.5°	64.3	62.6	61.8	59.8	60.1
65°	48.8	48.3	48.8	47.5	48.0
66°	44.0	44.2	44.2	43.5	44.0
67.5°	38.0	38.5	39.2	38.5	39.0
70°	31.4	31.9	32.4	32.4	32.4
72.5°	27.4	27.9	28.1	28.1	28.1
75°	25.1	25.4	25.6	25.1	25.1
77.5°	23.6	23.6	23.1	22.9	22.6
80°	21.4	21.1	20.4	19.9	19.9
82.5°	17.8	17.3	16.8	16.1	16.1
85°	13.6	13.1	12.6	11.6	11.1
87.5°	7.0	7.3	7.0	5.8	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)